

KEY FEATURES



- High power handling: 1.400 W program power
- Exclusive Malt Cross[®] Technology Cooling System
- Low power compression losses
- High sensitivity: 98 dB (1W / 1m)
- FEA optimized magnetic circuit
- Optimized non-linear behaviour

- Waterproof cone treatment on both sides of the cone
- 3" DUO double layer in/out copper voice coil
- Aluminium demodulating ring
- Extended controlled displacement: $X_{max} \pm 7$ mm
- 45 mm peak-to-peak excursion before damage
- Optimized for low frequency and mid-bass applications



TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		8 Ω
Minimum impedance		7,1 Ω
Power capacity ¹	700 W _{AES}	
Program power ²	1.400 W	
Sensitivity	98 dB	1W / 1m @ Z _N
Frequency range	55 - 4.000 Hz	
Recom. enclosure (Bass-reflex design)	V _b = 40 l F _b = 67 Hz	
Voice coil diameter	76,2 mm	3 in
BI factor		20,4 N/A
Moving mass		0,069 kg
Voice coil length		18 mm
Air gap height		9,5 mm
X _{damage} (peak to peak)		45 mm

Notes:

¹ The power capacity is determined according to AES2-1984 (r2003) standard.

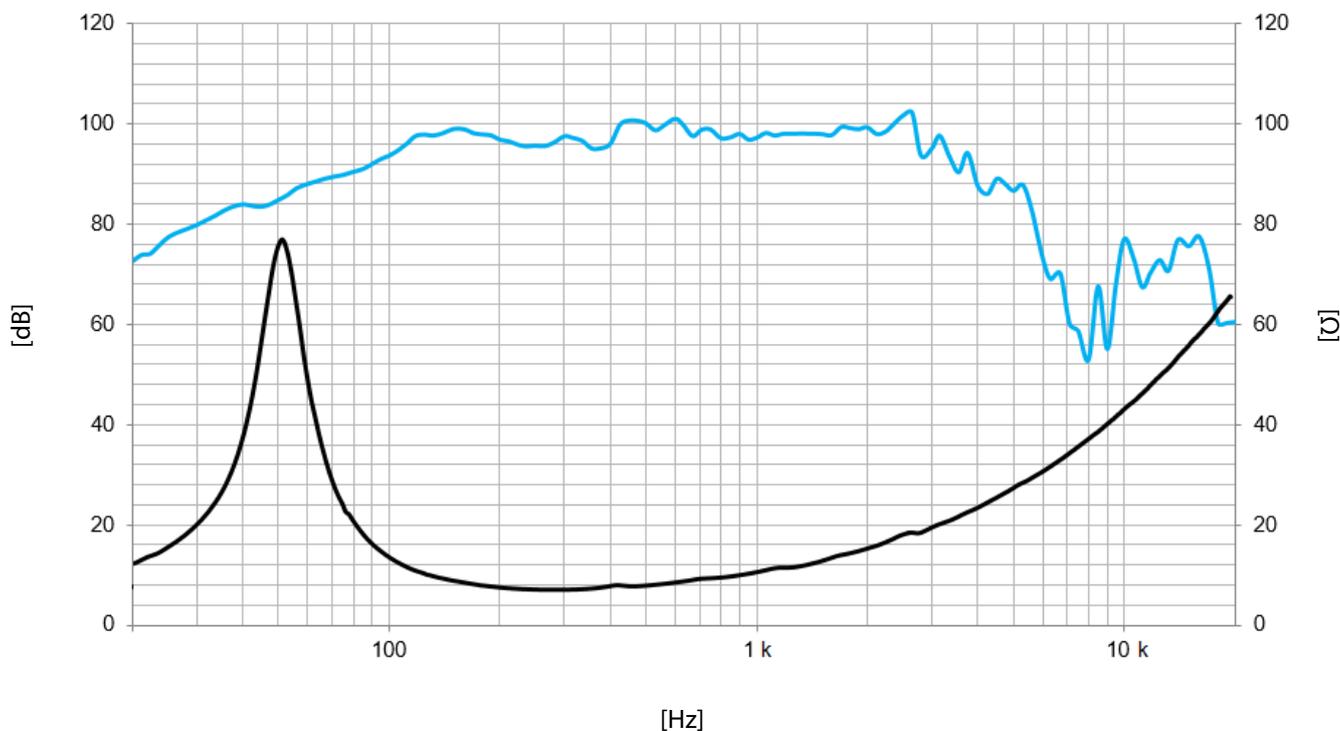
² Program power is defined as power capacity + 3 dB.

³ T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

⁴ The X_{max} is calculated as (L_{vc} - H_{ag})/2 + (H_{ag}/3,5), where L_{vc} is the voice coil length and H_{ag} is the air gap height.

THIELE-SMALL PARAMETERS³

Resonant frequency, f _s	51 Hz
D.C. Voice coil resistance, R _e	5,4 Ω
Mechanical Quality Factor, Q _{ms}	3,9
Electrical Quality Factor, Q _{es}	0,29
Total Quality Factor, Q _{ts}	0,27
Equivalent Air Volume to C _{ms} , V _{as}	59,5 l
Mechanical Compliance, C _{ms}	139 μ m / N
Mechanical Resistance, R _{ms}	5,6 kg / s
Efficiency, η_0	2,7 %
Effective Surface Area, S _d	0,055 m ²
Maximum Displacement, X _{max} ⁴	7 mm
Displacement Volume, V _d	385 cm ³
Voice Coil Inductance, L _e	0,9 mH



Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	312 mm	12,3 in
Bolt circle diameter	295 mm	11,6 in
Baffle cutout diameter:		
- Front mount	278 mm	10,9 in
Depth	145 mm	5,7 in
Net weight	7,8 kg	17,2 lb
Shipping weight	9,5 kg	20,9 lb

DIMENSION DRAWING

